

Other Defense Work

It Also Has Civilian Products That Rule Small Roosts: Its Earnings Keep Rising

But Who Ever Heard of It!

By Bob Davis

Staff Reporter of The Wall, STREET JOURNAL NEVADA TEST SITE-Deep in the Nevada desert, the United States is preparing for a Soviet nuclear attack in space. EG&G Inc. is doing the work.

EG&G miners are burrowing a mile deep into a velcanic-rock mesa to lay a huge steel pipe. Next spring, they will encase the pipe in concrete and suck it free of air to resemble the vacuum of outer space. Then, EG&G teclmicians will fire a nuclear weapon inside, obliterating part of the tunnel and battering delicate sensors with radiation. From this test, weapons scientists will try to gauge liow well U.S. satellites and space-bound missiles would withstand a nuclear blast.

EG&G is the bomb company. Since the nuclear era began, EG&G has helped manage all but eight of the approximately 745 announced U.S. nuclear detonations. It fired the first U.S. hydrogen bomb, pulverizing a small Pacific island called Elugelab. It collected data on a nuclear rocket-burst that turned the sky green over Johnston atoll, also in the Pacific.

Current Work

These days, EG&G is testing warheads for a new generation of missiles. It has built experimental silos for the MX. It researches ways to track nuclear submarines. It builds components for nuclear-weapons systems. And whether the U.S. keeps pace with or falls behind the Saviet Union in the nuclear arms race depends, in part, on EG&G.

In addition, the company has sizable commercial operations. Its 122 specialized commercial product lines and services include businesses ranging from making amplifiers used in research projects to testing anto emissions and possible cares for can-

EG&G also makes money-consistently. Earnings have increased every year since 1970, evel during the 1974-75 recession, when many government contractors suffered. Last year, net income reached a record \$46.6 million on sales of \$904.2 million.

Fren so, EG&C is the most anonymous at come area because of its super-sector research. Its headquarters is tucked away onmarked by a sign, in a squat office buscan; in Wellesley, Mass. And John M. Kuchariski, a senior vace president, says that until recently sen his kids couldn't figure out what a for a luding

The Bi Approved For Release 2009/11/24: CIA-RDP87R00029R000400660024-8 leclined, he says, be-

street, t'inderstanding the company requires an effort beyond many securities analysts lecause its government work is sometimes. lassified and its commercial work is fractured into tiny markets. "Analysts clutch their throats and run from the room when you mention EG&G," says Nancy B. Tooke. a vice president at E.F. Hutton & Co.

Even many antinuclear activists say they never tieard of it. Jean Holladay, a Newt Mass., grandmother, spent 212 months in jail for pouring blood on documents inside a factory that makes MX missile parts. But although EG&G is headquartered just a tew miles from her home, she asks: "Are they in Massachusetts?'

EG&G got off the starting blocks in the nuclear race when one of its founders, Harold E. Edgerton, designed circuitry that was adapted for the atomic bomb that flattened Nagasaki. After the war, the government asked Herbert E. Grier, who together with Mr. Edgerton and Kenneth J. Germeshausen had formed a company around their initials, to fire three atomic bombs at the Eniwetok atoll in the Pacific.

None of the founders remains active in the company, but EG&G's first employee, Bernard J. O'Keefe, now is chairman. As a young Navy engineer, Mr. O'Keefe handwired parts of the Nagasaki bomb. Since working for EG&G, he has been involved in about 200 nuclear-weapons tests, often announcing the last few seconds of a countdown. The work has sometimes been dangerous. Once, a hydrogen-bomb explosion in the Pacific blanketed his bunker with radioactive fallout, he says.

Weapons Foe

Despite his work, Mr. O'Keefe says he shares the concerns of antinuclear projesters. In his book, "Nuclear Hostages," he calls the United States and the Soviet Union "superpawns" to the arms race and opposes a raft of weapons systems—the neutron bomb, the MX missile, nuclear missiles for Europe—that his company helped develop. But Mr. O'Keefe says he won't lobby his friends in the Pentagon or on Capitol Hill to stop work on nuclear weapons.

Thi in the system," he declares, "I'm a card-carrying member of the military-industrial complex.

That hasn't won him admirers among antinuclear activists. Warren Davis, a founder of High Technology Professionals for Peace in Cambridge, Mass., calls Mr. O'Keefe "amoral" and charges that "greed" is behind his willingness to work on weapons he opposes. Mr. O'Keefe counters that he doesn't make defense policy and, besides, when the budget comes through, you take off your citizen hat and fight for as much of that budget as possible."

And Mr. O'Keefe wins plenty. The son of a Providence, R.I., politician, Mr. O'Keefe contacts in both political parties.

President Carter offered to make him: the

ise he thought Ronald Reagan would be ected and President-elect Reagan appointed him to a transition committee. But he says he doesn't need to arm-twist to get contracts. "The politicians can't touch me, he exclaims.

When it comes to profiting from changes in government policy, few businessmen can touch bum, either. In 1965, when the governare in was exploring commercial uses for his clear bombs, EG&G planned to stimulate natural-gas production in the West through underground nuclear detonations that would release trapped gas. The project excited Wall Street, and by 1967, EG&G's stock price mushroomed to 79 times earnings. Eager to diversify out of government work. Mr. O'Keefe traded EG&G shares for see eral scientific-instrument and mechanical parts companies.

The citizens of Colorado objected to plans to explode 1,000 nuclear bombs beneath their state, though, and the project collapsed in 1974 as a result of a referendum. But by then, EG&G's commercial operations had become among its most profitable.

Now, EG&G is awaiting the government's plans to build space-based weapons systems and a manned space station. Both would use nuclear-power sources, Mr. Kucharski believes, and would require the kind of safety and testing programs in which EG&G ex-

EG&G competes commercially only in small markets that it can dominate. About 40% of its sales now come from technical services and such products as precision fans, optical components and radiation detectors that don't have enough sales potential to attract many competitors. EG&G says it is either the market share leader or performance leader in about 80% of these technological markets, which have average world-wide sales of less than \$25 million.

Its research work, meanwhile, ranges from one laboratory in San Antonio, Texas, that tests automobiles for pollution and safety, to another in Worcester, Mass., that evalua' is anticancer drugs and studies the effects of marijuana.

Avoiding Risks

EG&G avoids financial risks, perhaps because it deals in deadly weapons, perhaps because of the conservative outlook of 61 year-old Mr. O'Keefe and his successor as chief executive, Dean W. Freed. Personally, the men are opposites, and they concede that they aren't close friends. Chubby, balding, an indifferent dresser, Mr. O'Keefe enjoys regaling politicians. Tall, elegant, nattily tailored, Mr. Freed stiffly proclaims that his hobby is "joining organizations in a leadership position." But both men look for sure bets before they invest EG&G

The company's "wish fist" of 90 acquisisays he grew up "not knowing a Republican tion prospects is kept in a black loose-leaf or a Protestant," but now he boasts of his notebook. Reaching for it, David J. Bennnotebook. Reaching for it, David J. Beaubien, senior vice president, comments: "You wouldn't know these companies even if I told you their names."

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Right now. Approved For Release 2009/11/24: CIA-RDP87R00029R000400660024-8 Addation from over right company. But he concedes that has been limiting for such a company-one Ridge, Tenn. in an insulated market-for about eight years. One that got away: an outfit that rocky desert 65 miles north of Las Vegas, reraises laboratory mice.

Government Business

For all its commercial enterprises, though. EG&G's fastest growing business of in government contracts. Since President Religan took office and began beefing up the vation's defense and research-and-development budgets, EG&G's pretax operating profit from government contracts has don bled. Last year, EG&G helped persuade the Department of Energy to increase tee: about 40% for managing the Nevada Test Site and a nuclear-power program in Idaho, the size of a vast rock quarry, mark the It also added the Kennedy Space Center to sites of underground nuclear tests, which the portfolio of large projects that it runs are proceeding now at a clip of about 15 a for the government. EG&G engineers test components used in the Space Shuttle before with desert shrubs, all that remain of a it is bunished, load it with fuel and manage model village flattened by a bomb, the base during missions,

k; weapons and research tacilities in Oak!

The sprawling Nevada Test Site, in the mains the heart of the company, EG&G honed its management skills here and has kept current with nuclear technology through its weapons work. Now it employs about 7,000 workers in Nevada-about onethird of its world wide force-in tasks as demanding as measuring the radioactive particles released by nuclear explosions and as numdane as operating cafeterias.

Scarred Desert

The desert here bears the scars of the weapons program. Hundreds of craters, one year. Two homes sit alone on flatland dotted

Last week, a tederal district judge ruled FGAG doesn't win all the contracts for that fallont from atmospheric tests caused nine cancer deaths in areas near the Nevada Test Site and held the government guilty of negligence. EG&G wasn't a delendant in that case, but its Reynolds Electrical & Engmeering subsidiary is a defendant in several other cases brought by former test-site workers who contend that they contracted cancer as a result of the blasts. EG&G didn't own Reynolds at the line of the above ground testing and says the government would indennify it for any judgment.)

> In the early years of the nuclear program, when EG&G ran atmospheric tests, lakers would climb into the nearby mountains to watch explosions that turned the mght sky into day. But today's underground blasts lack that drama. The ground rombles then collapses. Occasionally, a coyote wan dering too close is upended.

Deep in Politics

The work in Nevada is subject to politics All three Democratic candidates for the presidency favor a freaty to ban naclear testing, but the prospect of a halt doesn't appea to trouble EG&G. During the last ma clear moratorium in 1958, the government employed EG&G to help develop a nuclear powered rocket, Mr. O'Keefe recalls. To stay carrent with nuclear technology, the government, he figures, would have to find work for EG&G during any future test ban. too. One possibility: testing nuclear weapons through computer simulations and effect means,

Not all of EG&G's Nevada efforts go une defonating weapons. About 150 people are part of the Department of Energy's elite No. etear Emergency Search Team, which responds to exfortion threats involving nuclear weapons. When a Long Beseli, Calif., oil company received a \$100,000 extortion demand-backed up by the threat of a micban explosion - EG&G searched the area for signs of radioactivity and helped determine that if was a hoax.

d. And to survey an area on foot, EG&G uses cameras hidden in Mariboro cartons and radiation detectors bundled in back packs. "We've gotten away from attache cases because our employees don't look like they carry them," notes Peter H. Zavattaro who heads EG&G's energy measurement on erations.

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Work Elsewhere

Other EG&G government work is spread throughouf the country. Outside Washington, D.C., EG&G scientists devise sonar record ing techniques to locate enemy submarines and develop radar systems to detect low-flying missiles. In Albuquerque, N.M., EG&G technicians drive tanks and airplanes under an antenna net that produces an electromag netic pulse of energy similar to a nuclear bomb to see how they function afterwards.

And in Idaho, on a vast tract of federal land traversed by antelope, EG&G operates six experimental reactors for the government. To gange the radioactivity released in a meltdown, EG&G intends to heat the fuel cores in two reactors to a point where there metal shieldings burn. Information from these tests will then be used to evaluate reactor-safety features.

EG&G executives talk of a host of next generation projects: a nuclear-power plant with sophisticated safety features, a farnace that melts low-level radioactive waste into ingots, an underground repository for spen; fuel cores. 'My fundamental philosophy is that naclear won't go away." Mr. O'Reepe says. As long as it doesn't, EGAG should

EG&G: A Nuclear-Weapons Giant U.S. Testing Pr Change Sales \$9 4 : \$604. 9 + 12 oriest Tests Net Income 260 -\$45 h Earnings per Share \$1.56 Tetal Assets \$139.1 \$274 -+23 St arenviden

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